

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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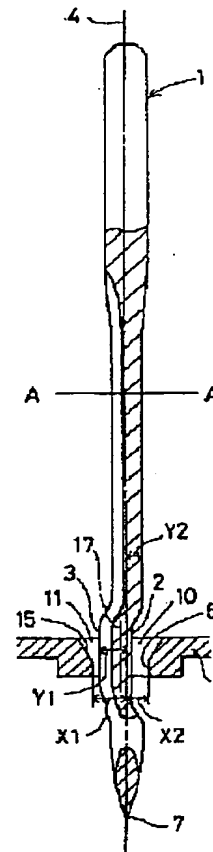
APPLICATION DATE : 02-03-93  
APPLICATION NUMBER : 05041128

APPLICANT : BROTHER IND LTD;

INVENTOR : ISHITANI HIDEKAZU;

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TITLE : THROAT PLATE FOR SEWING MACHINE



ABSTRACT : PURPOSE: To provide a throat plate for sewing machine which prevents a skipping stitch from happening, and prevents a shuttle blade tip and needle tip from being damaged.

CONSTITUTION: A distance  $x_2$  from the center line 4 of a sewing machine needle 1 to the inner surface of a needle hole 6 on the side where a notched part 2 is provided of the sewing machine needle 1 is set to be shorter than a distance  $x_1$  from the center line 4 to the inner surface of the needle hole 6 on the side where a protruding part 3 is provided on the opposite side. Therefore, the center line 4 of the sewing machine needle 1 is set to be offset to a shuttle blade tip side from the center 17 of the needle hole 6 which is provided on a throat plate 9.

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